



Brunsing Associates, Inc.

March 2, 2006

Project No. 403

Ms. Darcy Bering
Sonoma County Department of Health Services
Environmental Health Division
475 Aviation Boulevard, Suite 220
Santa Rosa, California 95403

**Groundwater Monitoring Report
January 2006
3610 Gravenstein Highway South
Sebastopol, California**

Dear Ms. Bering:

This report presents the results of groundwater monitoring performed at Lander's Automotive, 3610 Gravenstein Highway South, Sebastopol, California (Plate 1) by Brunsing Associates, Inc. (BAI). The groundwater sampling was performed on January 25, 2006. A reduced groundwater monitoring program was approved in the Sonoma County Department of Health Services (SCDHS) letter dated October 26, 2004.

SITE HISTORY

In December 1986, three underground storage tanks (USTs) were removed from the site by Eddie Neal Construction, Inc., of Santa Rosa, California. Two tanks were located in a common excavation; one 7,500-gallon tank had stored unleaded gasoline and one 5,000-gallon tank had stored leaded gasoline. One approximately 300-gallon tank used to store waste oil was located within 20 feet south of the fuel tanks excavation (Plate 2). Soil samples collected from the gasoline tanks excavation contained levels of total petroleum hydrocarbons (TPH) as gasoline up to 33 milligrams per kilogram (mg/kg). A soil sample collected beneath the waste oil tank excavation was analyzed for TPH as diesel but not for other waste oil constituents. TPH as diesel was not detected in that sample.

To date, there have been eleven groundwater monitoring wells constructed under the direction of Trans Tech Consultants (TTC) and BAI. Wells MW-8 and MW-11 have since been abandoned. Thirty-five borings have also been drilled and sampled, of which some were converted to monitoring wells. A map showing the locations of borings B-1 through

B-16, which were drilled by TTC, is contained in Appendix A. The locations of the monitoring and domestic wells, and borings B-17 through B-35 are shown on Plate 2. The analytical test results of the groundwater samples collected to date indicate, that there was petroleum hydrocarbon impacted groundwater in the area of the former gasoline USTs (wells MW-3 and MW-4, Plate 2), on the southern portion of the study site in the vicinity of well MW-7, and in the area of the former dispenser island and product lines (well MW-11). A summary of the groundwater monitoring well organic analytical data is presented in Table 1, and the water-level elevations are presented in Table 2.

In September 2003, approximately 612 tons of contaminated soil was excavated adjacent to and north of the former dispenser island. The soil was transported to and disposed at Forward Landfill. The results of the soil remediation were presented in BAI's report dated December 22, 2003.

On December 12, 2004, BAI drilled three soil borings (B-33, B-34, and B-35) at the locations shown on Plate 2 to further delineate the lateral extent of petroleum hydrocarbon contamination in soil and groundwater in the vicinity of well MW-7. Additionally, on February 7, 2005, BAI excavated in the vicinity of the anomaly reported by NORCAL Geophysical Consultants, Inc. Soil samples were collected from the excavation and the borings, and groundwater samples were collected from the borings. The results of this investigation were presented in BAI's "Additional Site Investigation Report," dated June 7, 2005. The analytical data from soil and groundwater samples collected from soil borings are presented in Tables 3 and 4, respectively.

WATER-LEVEL MEASUREMENTS

Depths to groundwater were measured in wells MW-1 through MW-7, MW-9, and MW-10 on January 25, 2006 by BAI personnel. The depths to groundwater and the calculated elevations for this sampling event are presented in Table 2. The groundwater flow direction generally ranged from west to northwest (Plate 3). Using data from wells MW-2, MW-5, and MW-7, the groundwater flow direction was towards the north-northwest and the groundwater gradient was approximately 0.021 foot per foot.

GROUNDWATER SAMPLING

Monitoring wells MW-1, MW-3, MW-4, and MW-7 were sampled on January 25, 2006. The wells were sampled in accordance with the sampling protocol presented in Appendix B. The samples were analyzed by BACE Analytical and Field Services (BAFS) for TPH as gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX), petroleum oxygenates and lead scavengers.



The groundwater sample collected from well MW-7 contained TPH as gasoline at 10 milligrams per liter (mg/l), toluene at 3.88 micrograms per liter ($\mu\text{g/l}$), ethylbenzene at 282 $\mu\text{g/l}$, and xylenes at 298 $\mu\text{g/l}$ (Table 1). The groundwater samples collected from wells MW-3 and MW-4 contained benzene at concentrations of 0.62 $\mu\text{g/l}$ and 0.52 $\mu\text{g/l}$, respectively. None of the analytes were reported in the groundwater samples collected from well MW-1. The groundwater analytical data for the monitoring wells are summarized in Table 1, and the sampling field forms are included in Appendix B. The domestic well analytical results are summarized in Table 5. The laboratory reports, including quality assurance/quality control data, are presented in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

The toluene, ethylbenzene, and xylenes concentrations increased in well MW-7 compared to the previous sampling events in July and October 2005. The TPH as gasoline concentration from well MW-7 was the highest reported to date.

BAI submitted a "Soil Excavation Workplan," dated January 12, 2006, to excavate in the vicinities of well MW-7 and boring B-29. The data generated from the soil excavation investigation will be incorporated into the proposed site conceptual model. Therefore, BAI recommends that completion of the site conceptual model be postponed until the excavation soil and groundwater data has been evaluated. The excavation will be performed in the Spring, after groundwater levels have dropped.

SCHEDULE FOR NEXT MONITORING ACTIVITIES

The next quarterly sampling event is tentatively scheduled for April 2006.



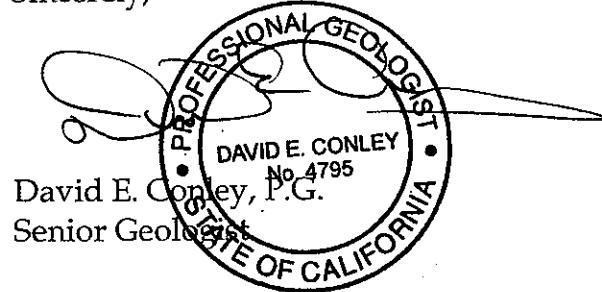
Ms. Darcy Bering

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If you have any questions regarding this report, please contact David Conley at (707) 838-3027.

Sincerely,



David E. Conley, P.G.
Senior Geologist

Steve Silva
Project Geologist

- Attachments:
- Table 1. Groundwater Analytical Data Starting in 1993
 - Table 2. Groundwater Elevation Data Starting in 1994
 - Table 3. Soil Sample Analytical Data - Soil Borings
 - Table 4. Groundwater Sample Analytical Data - Soil Borings
 - Table 5. Domestic Well Analytical Data Starting in 2002

- Plate 1. Location Map
- Plate 2. Site Map
- Plate 3. Groundwater Elevation Map, January 25, 2006

- Appendix A. TTC Site Plan and Location Map
- Appendix B. Sampling Protocol and Field Forms
- Appendix C. Analytical Laboratory Reports

cc: Mr. John Lander



TABLES



Table 1. Groundwater Analytical Data Starting in 1993
 3610 Gravenstein Highway South
 Sebastopol, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	TPH as Diesel (mg/l)	TPH as Motor Oil (mg/l)	Oil and Grease (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (CEPA 8020) (µg/l)	VOCs (EPA 8010) (µg/l)	MTBE * (EPA 8260) (µg/l)
MW-1	4/6/1993	ND	na	na	10	ND	ND	ND	na	na	na	na
MW-1	12/14/1994	ND	na	na	ND	ND	ND	ND	na	na	na	na
MW-1	12/18/1996	ND	ND	ND	na	ND	ND	ND	na	na	na	na
MW-1	4/25/2002	<0.050	na	na	4.06	<0.50	<0.50	<0.50	na	na	na	ND
MW-1	4/23/2003	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	ND
MW-1	7/25/2003	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	ND
MW-1	10/21/2003	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	ND
MW-1	12/15/2003	<0.050	na	na	<0.30	<0.30	<0.30	<0.50	na	na	na	<0.50
MW-1	4/8/2004	<0.050	na	na	0.53	<0.50	<0.50	<0.50	na	na	na	ND
MW-1	7/21/2004	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	ND
MW-1	10/28/2004	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-1	1/20/2005	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-1	4/27/2005	<0.05	na	na	0.59	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-1	7/6/2005	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-1	10/17/2005	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-1	1/25/2006	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-2	4/6/1993	0.35	0.92	na	ND	44	ND	ND	ND	ND	ND	na
MW-2	12/14/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na
MW-2	12/18/1996	ND	ND	ND	1.5	1.3	ND	ND	na	na	na	na
MW-2	5/16/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na
MW-2	11/3/1997	ND	ND	na	na	na	ND	ND	ND	ND	ND	na
MW-2	4/24/2002	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-2	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-2	7/25/2003	0.090	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-2	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<0.50
MW-2	12/16/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-2	4/8/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-2	7/20/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-2	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0



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Well Number	Date Sampled	TPH as Gasoline (mg/l)	TPH as Diesel (mg/l)	TPH as Motor Oil (mg/l)	Oil and Grease (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (EPA 8020) (µg/l)	VOCs (EPA 8010) (µg/l)	MTBE * (EPA 8260) (µg/l)
MW-2	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-2	10/14/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	4/6/1993	0.11	na	na	na	24	ND	ND	2.8	na	na	na
MW-3	12/14/1994	ND	0.05	ND	ND	3.6	ND	ND	ND	na	0.9 (PCE)	na
MW-3	12/17/1996	ND	ND	ND	na	1.7	ND	ND	ND	ND	0.7 (PCE)	na
MW-3	5/16/1997	ND	ND	ND	na	ND	ND	ND	ND	ND	ND	na
MW-3	11/3/1997	0.21	0.28 (A)	na	na	ND	ND	1.7	2.2	ND	ND	na
MW-3	11/11/1998	ND	ND	ND	na	ND	ND	ND	ND	na	na	na
MW-3	9/2/1999	0.28	na	na	na	1.5	ND	1.1	ND	na	na	ND
MW-3	12/17/1999	ND	na	na	na	ND	ND	ND	ND	na	na	ND
MW-3	4/24/2002	ND	na	na	na	5.19	<0.50	<0.50	<0.50	na	na	ND
MW-3	4/23/2003	<0.050	na	na	na	4.36	<0.50	<0.50	<0.50	na	na	ND
MW-3	7/25/2003	0.16	na	na	na	0.540	<0.50	<0.50	<0.50	na	na	ND
MW-3	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<0.50
MW-3	12/15/2003	<0.050	na	na	na	3.9	<0.30	<0.50	<0.50	na	na	<1.0
MW-3	4/8/2004	<0.050	na	na	na	1.79	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	7/20/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	4/27/2005	<0.05	na	na	na	1.06	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	7/6/2005	<0.050	na	na	na	0.58	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	10/17/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	1/25/2006	<0.05	na	na	na	0.62	<0.50	<0.50	<0.50	na	na	<1.0
MW-4	4/6/1993	3.8	na	na	na	17	5.0	46	55	na	na	na
MW-4	12/14/1994	0.67	0.42 (A)	ND	56	5.1	13	17	na	0.9 (1,1-DCA)	na	na
MW-4	12/17/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na
MW-4	5/16/1997	ND	ND	na	ND	ND	ND	ND	ND	ND	ND	na
MW-4	11/3/1997	0.65	0.53 (A)	na	10	4.5	1.1	6.6	ND	ND	ND	na
MW-4	11/11/1998	ND	ND	na	ND	ND	ND	ND	na	na	na	na

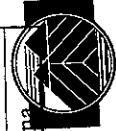


Table 1. Groundwater Analytical Data Starting in 1993
 3610 Gravenstein Highway South
 Sebastopol, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)		TPH as Diesel (mg/l)		TPH as Motor Oil (mg/l)		Oil and Grease (mg/l)		Benzene (µg/l)		Toluene (µg/l)		Ethyl-benzene (µg/l)		Total Xylenes (µg/l)		MTBE (EPA 8020) (µg/l)		VOCs (EPA 8010) (µg/l)		MTBE * (EPA 8260) (µg/l)	
		TPH as Gasoline (mg/l)	TPH as Diesel (mg/l)	TPH as Motor Oil (mg/l)	Oil and Grease (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (EPA 8020) (µg/l)	VOCs (EPA 8010) (µg/l)	MTBE * (EPA 8260) (µg/l)											
MW-4	9/2/1999	0.44	na	na	na	1.6	4.9	1.4	1.6	na	na	ND											
MW-4	12/17/1999	0.59	na	na	na	2.0	2.7	1.7	2.6	na	na	ND											
MW-4	4/25/2002	<0.050	na	na	na	2.38	<0.50	<0.50	<0.50	na	na	ND											
MW-4	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND											
MW-4	7/25/2003	0.28	na	na	na	<0.50	<0.50	0.530	0.700	na	na	ND											
MW-4	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<0.50 (E)											
MW-4	12/15/2003	0.072	na	na	na	<0.30	<0.30	<0.50	<0.50	na	na	<1.0											
MW-4	4/8/2004	<0.050	na	na	na	1.00	<0.50	<0.50	<0.50	na	na	ND											
MW-4	7/21/2004	0.15	na	na	na	<0.50	<0.50	1.54	<0.50	na	na	<1.0											
MW-4	10/28/2004	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0											
MW-4	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0											
MW-4	4/27/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0											
MW-4	7/6/2005	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0											
MW-4	10/17/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0											
MW-4	1/25/2006	<0.05	na	na	na	0.52	<0.50	<0.50	<0.50	na	na	<1.0											
MW-5	12/14/1994	ND	na	na	na	ND	ND	ND	ND	na	na	na											
MW-5	12/18/1996	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na											
MW-5	5/16/1997	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na											
MW-5	11/3/1997	ND	ND	ND	ND	ND	ND	ND	ND	na	na	ND											
MW-5	4/25/2002	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND											
MW-5	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND											
MW-5	7/25/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND											
MW-5	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<0.50											
MW-5	12/16/2003	<0.050	na	na	na	<0.30	<0.30	<0.50	<0.50	na	na	<1.0											
MW-5	4/8/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0											
MW-5	7/20/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0											
MW-5	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0											
MW-5	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0											
MW-5	10/14/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0											



Table 1. Groundwater Analytical Data Starting in 1993
 3610 Gravestein Highway South
 Sebastopol, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	TPH as Diesel (mg/l)	TPH as Motor Oil (mg/l)	Oil and Grease (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (EPA 8020) (µg/l)	VOCs (EPA 8010) (µg/l)	MTBE * (EPA 8260) (µg/l)
MW-6	12/14/1994	ND	na	na	ND	ND	ND	ND	na	na	na	na
MW-6	12/18/1996	ND	ND	na	na	ND	ND	ND	na	na	na	na
MW-6	4/24/2002	ND	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-6	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-6	7/25/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-6	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-6	12/16/2003	<0.050	na	na	na	<0.30	<0.30	<0.50	na	na	na	<0.50 (F)
MW-6	4/8/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-6	7/21/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-6	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-6	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-6	10/14/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-7	12/14/1994	9.0	4.8 (A)	ND	15	25	19	190	1,300	na	ND	na
MW-7	12/18/1996	7.4	6.3 (A)	ND	na	ND	20	360	970	na	na	na
MW-7	5/16/1997	2.9	3.3 (A)	na	na	1.3	0.9	34	14	ND	na	na
MW-7	11/3/1997	5.3	4.6 (A)	na	na	13	8.8	150	320	ND	na	na
MW-7	11/11/1998	7.0	ND	ND	na	4.9	16	300	790	na	na	na
MW-7	9/2/1999	5.2	na	na	na	4.2	11	190	480	na	na	ND
MW-7	12/17/1999	7.9	na	na	na	8.7	13	310	570	na	na	ND
MW-7	4/24/2002	0.72	na	na	na	<0.50	<0.50	18.9	1,91	na	na	ND
MW-7	4/23/2003	0.13	na	na	na	<0.50	<0.50	6.68	2.98	na	na	ND
MW-7	7/25/2003	0.87	na	na	na	<10	22.3	50.2	115	na	na	ND
MW-7	10/21/2003	2.0	na	na	na	<5.0	<5.0	141	101	na	na	ND
MW-7	12/15/2003	4.4	na	na	na	<15	<15	120	97	na	na	<2.5
MW-7	4/8/2004	0.78	na	na	na	<2.5	<2.5	28.6	32.0	na	na	<5.0
MW-7	7/20/2004	2.3	na	na	na	1.55	4.23	200	141	na	na	<1.0
MW-7	10/28/2004	1.8	na	na	na	1.92	<0.50	170	28.8	na	na	<1.0
MW-7	1/21/2005	7.4	na	na	2.03	5.11	324	502	na	na	na	<2.0



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Well Number	Date Sampled	TPH as Gasoline (mg/l)	TPH as Diesel (mg/l)	TPH as Motor Oil (mg/l)	Oil and Grease (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (EPA 8020) (µg/l)	VOCs (EPA 8010) (µg/l)	MTBE * (EPA 8260) (µg/l)
MW-7	4/27/2005	2.2	na	na	<2.5	<2.5	74.4	49.7	na	na	na	<5.0
MW-7	7/6/2005	0.11	na	na	0.55	<1.0	2.31	1.33	na	na	na	<2.0 (G)
MW-7	10/17/2005	7.8	na	na	1.42	2.19	187	101	na	na	na	<2.0
MW-7	1/25/2006	10	na	na	<2.5	3.88	282	298	na	na	na	<5.0
MW-8	12/15/1994	ND	na	na	ND	ND	ND	ND	ND	na	na	na
MW-8	12/18/1996	ND	ND	ND	na	ND	ND	ND	ND	na	na	na
MW-9	12/14/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-9	12/18/1996	ND	ND	ND	na	ND	ND	ND	ND	na	na	na
MW-9	7/24/2001	na	na	na	na	na	na	na	na	na	na	ND
MW-9	4/24/2002	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	1.24
MW-9	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-9	7/25/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-9	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-9	12/16/2003	<0.50	na	na	na	<30	<30	<50	<50	na	na	<50
MW-9	4/8/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-9	7/21/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-9	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-9	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-10	12/17/1996	ND	ND	ND	na	ND	ND	ND	ND	ND	ND	na
MW-10	5/16/1997	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
MW-10	11/3/1997	ND	ND	na	na	ND	ND	ND	ND	na	na	na
MW-10	12/17/1999	ND	na	na	na	ND	ND	ND	ND	na	na	ND
MW-10	4/25/2002	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-10	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-10	7/25/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-10	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-10	12/16/2003	<0.050	na	na	na	<0.30	<0.30	<0.50	<0.50	na	na	<0.50
MW-10	4/7/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-10	7/21/2004	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	<0.50	na	na	na



Table 1. Groundwater Analytical Data Starting in 1993
 3610 Gravenstein Highway South
 Sebastopol, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	TPH as Diesel (mg/l)	TPH as Motor Oil (mg/l)	Oil and Grease (mg/l)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (EPA 8020) (µg/l)	VOCs (EPA 8010) (µg/l)	MTBE * (EPA 8260) (µg/l)
MW-10	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-10	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-10	10/14/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	5.91
MW-11	11/11/1998	0.26	ND	ND	na	77	21	4.8	35	na	(B)	na
MW-11	9/2/1999	34	na	na	na	7,900	7,400	1,600	5,500	na	na	ND (C)
MW-11	12/17/1999	7.4	na	na	na	2,100	68	8.8	1,500	na	na	ND (C)
MW-11	4/24/2002	0.88	na	na	na	340	<2.5	32.5	62.6	na	na	ND (C)

1993 data collected by Trans Tech Consultants and included in their report dated May 24, 1993.

ND = Not detected at the method reporting limit.

< = Not detected above specified reporting limit.

ns = Well not sampled due to inaccessibility.

na = Not analyzed.

mg/l = milligrams per liter .

µg/l = micrograms per liter.

MTBE = methyl tertiary butyl ether, PCE = tetrachloroethene, 1,1-DCA = 1,1-dichloroethane.

(A) = Chromatographic peak array does not match commercial diesel standard; probable source is weathered gasoline.

(B) = 1,2-dibromoethane at 2.26 µg/l and 1,2-dichloroethane at 9.65 µg/l reported in sample.

(C) = 1,2-dichloroethane reported at 311 µg/l for 9/2/99, 116 µg/l for 12/17/99, and 12.5 µg/l for 4/24/02.

(D) = 1,2-dichloroethane reported at 1.22 µg/l.

(E) = tert-butyl alcohol reported at 13 µg/l.

(F) = 1,4-dichlorobenzene reported at 3.2 µg/l.

(G) = isopropylbenzene reported at 2.76 µg/l, naphthalene at 2.00 µg/l, and n-propylbenzene at 1.26 µg/l.

* Analyzed for petroleum oxygenates and lead scavengers by EPA Test Method 8260; only those detected are listed.



Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South

Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1	12/14/1994	87.60	1.25	86.35	North to Northwest
MW-2	12/14/1994	88.33	2.25	86.08	
MW-3	12/14/1994	87.92	1.30	86.62	
MW-4	12/14/1994	87.70	1.29	86.41	
MW-5	12/14/1994	86.91	2.31	84.60	
MW-6	12/14/1994	86.63	0.58	86.05	
MW-7	12/14/1994	89.36	1.54	87.82	
MW-8	12/14/1994	88.74	1.02	87.72	
MW-9	12/14/1994	88.52	1.61	86.91	
MW-1	12/17/1996	87.60	0.83	86.77	Northwest
MW-2	12/17/1996	88.33	1.68	86.65	
MW-3	12/17/1996	87.92	0.78	87.14	
MW-4	12/17/1996	87.70	1.53	86.17	
MW-5	12/17/1996	86.91	2.47	84.44	
MW-6	12/18/1996	86.63	0.78	85.85	
MW-7	12/17/1996	89.36	1.03	88.33	
MW-8	12/17/1996	88.74	0.89	87.85	
MW-9	12/17/1996	88.52	2.33	86.19	
MW-10	12/17/1996	86.35	-0.03	86.38	
MW-1	5/16/1997	87.60	2.17	85.43	North to Northwest
MW-2	5/16/1997	88.33	3.37	84.96	
MW-3	5/16/1997	87.92	2.13	85.79	
MW-4	5/16/1997	87.70	2.10	85.60	
MW-5	5/16/1997	86.91	3.33	83.58	
MW-6	5/16/1997	86.63	na	na	
MW-7	5/16/1997	89.36	2.06	87.30	
MW-8	5/16/1997	88.74	1.78	86.96	
MW-9	5/16/1997	88.52	1.71	86.81	
MW-10	5/16/1997	86.35	1.39	84.96	
MW-1	11/3/1997	87.60	5.12	82.48	North
MW-2	11/3/1997	88.33	5.41	82.92	
MW-3	11/3/1997	87.92	5.12	82.80	
MW-4	11/3/1997	87.70	5.08	82.62	
MW-5	11/3/1997	86.91	5.08	81.83	
MW-6	11/3/1997	86.63	na	na	
MW-7	11/3/1997	89.36	5.49	83.87	
MW-8	11/3/1997	88.74	5.11	83.63	
MW-9	11/3/1997	88.52	4.99	83.53	
MW-10	11/3/1997	86.35	4.23	82.12	



Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South

Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1	11/10/1998	87.60	3.47	84.13	North
MW-2	11/10/1998	88.33	3.84	84.49	
MW-3	11/10/1998	87.92	3.55	84.37	
MW-4	11/10/1998	87.70	3.53	84.17	
MW-5	11/10/1998	86.91	3.87	83.04	
MW-6	11/10/1998	86.63	2.74	na	
MW-7	11/10/1998	89.36	4.18	85.18	
MW-9	11/10/1998	88.74	4.04	84.70	
MW-10	11/10/1998	88.52	3.75	84.77	
MW-11	11/10/1998	ns	3.75	ns	
MW-1	9/2/1999	87.60	4.61	82.99	Northwest
MW-2	9/2/1999	88.33	4.98	83.35	
MW-3	9/2/1999	87.92	4.70	83.22	
MW-4	9/2/1999	87.70	4.73	82.97	
MW-5	9/2/1999	86.91	4.97	81.94	
MW-6	9/2/1999	86.63	4.35	82.28	
MW-7	9/2/1999	89.36	4.63	84.73	
MW-9	9/2/1999	88.74	5.43	83.31	
MW-10	9/2/1999	88.52	na	na	
MW-11	9/2/1999	ns	3.75	ns	
MW-1	12/17/1999	87.60	3.27	84.33	North
MW-2	12/17/1999	88.33	3.64	84.69	
MW-3	12/17/1999	87.92	3.37	84.55	
MW-4	12/17/1999	87.70	3.36	84.34	
MW-5	12/17/1999	86.91	3.93	82.98	
MW-6	12/17/1999	86.63	2.77	83.86	
MW-7	12/17/1999	89.36	4.05	85.31	
MW-9	12/17/1999	88.74	3.97	84.77	
MW-10	12/17/1999	88.52	2.31	86.21	
MW-11	12/17/1999	ns	3.57	ns	
MW-1	4/24/2002	87.60	1.04	86.56	North to Northwest
MW-2	4/24/2002	88.33	1.51	86.82	
MW-3	4/24/2002	87.92	0.95	86.97	
MW-4	4/24/2002	87.70	1.15	86.55	
MW-5	4/24/2002	86.91	2.74	84.17	
MW-6	4/24/2002	86.63	1.26	85.37	
MW-7	4/24/2002	89.36	1.34	88.02	
MW-9	4/24/2002	88.74	2.35	86.39	
MW-10	4/24/2002	88.52	0.19	88.33	
MW-11	4/24/2002	ns	0.98	ns	



Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South
Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1	4/23/2003	87.60	0.75	86.85	West to Northwest
MW-2	4/23/2003	88.33	0.96	87.37	
MW-3	4/23/2003	87.92	0.71	87.21	
MW-4	4/23/2003	87.70	0.86	86.84	
MW-5	4/23/2003	86.91	2.56	84.35	
MW-6	4/23/2003	86.63	0.95	85.68	
MW-7	4/23/2003	89.36	1.06	88.30	
MW-9	4/23/2003	88.74	2.23	86.51	
MW-10 ^A	4/23/2003	88.52	0.00	>88.52	
MW-1	7/25/2003	87.60	4.01	83.59	West to East
MW-2	7/25/2003	88.33	4.31	84.02	
MW-3	7/25/2003	87.92	4.05	83.87	
MW-4	7/25/2003	87.70	4.14	83.56	
MW-5	7/25/2003	86.91	4.59	82.32	
MW-6	7/25/2003	86.63	3.84	82.79	
MW-7	7/25/2003	89.36	3.70	85.66	
MW-9	7/25/2003	88.74	4.65	84.09	
MW-10	7/25/2003	88.52	3.49	85.03	
MW-1	10/21/2003	87.60	5.82	81.78	West to North
MW-2	10/21/2003	88.33	6.31	82.02	
MW-3	10/21/2003	87.92	6.03	81.89	
MW-4	10/21/2003	87.70	5.99	81.71	
MW-5	10/21/2003	86.91	5.88	81.03	
MW-6	10/21/2003	86.63	5.36	81.27	
MW-7	10/21/2003	89.36	5.75	83.61	
MW-9	10/21/2003	88.74	6.49	82.25	
MW-10	10/21/2003	88.52	5.16	83.36	
MW-1	12/15/2003	87.60	2.77	84.83	Northwest ^B
MW-2	12/16/2003	88.33	3.12	85.21	
MW-3	12/15/2003	87.92	2.92	85.00	
MW-4	12/15/2003	87.70	2.88	84.82	
MW-5	12/16/2003	86.91	3.40	83.51	
MW-6	12/16/2003	86.63	1.99	84.64	
MW-7	12/15/2003	89.36	4.70	84.66	
MW-9	12/16/2003	88.74	2.77	85.97	
MW-10	12/16/2003	88.52	1.94	86.58	



Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South

Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1	4/7/2004	87.60	0.87	86.73	West to Northwest
MW-2	4/7/2004	88.33	1.37	86.96	
MW-3	4/7/2004	87.92	0.84	87.08	
MW-4	4/7/2004	87.70	0.96	86.74	
MW-5	4/7/2004	86.91	2.64	84.27	
MW-6	4/7/2004	86.63	1.08	85.55	
MW-7	4/7/2004	89.36	1.35	88.01	
MW-9	4/7/2004	88.74	2.30	86.44	
MW-10	4/7/2004	88.52	0.17	88.35	
MW-1	7/20/2004	87.60	4.59	83.01	
MW-2	7/20/2004	88.33	5.07	83.26	
MW-3	7/20/2004	87.92	4.80	83.12	
MW-4	7/20/2004	87.70	4.78	82.92	
MW-5	7/20/2004	86.91	4.96	81.95	
MW-6	7/20/2004	86.63	4.39	82.24	
MW-7	7/20/2004	89.36	4.34	85.02	
MW-9	7/20/2004	88.74	5.31	83.43	
MW-10	7/20/2004	88.52	4.17	84.35	
MW-1	10/28/2004	87.60	5.70	81.90	
MW-2	10/28/2004	88.33	6.10	82.23	
MW-3	10/28/2004	87.92	5.88	82.04	
MW-4	10/28/2004	87.70	5.71	81.99	
MW-5	10/28/2004	86.91	5.66	81.25	
MW-6	10/28/2004	86.63	4.70	81.93	
MW-7	10/28/2004	89.36	6.49	82.87	
MW-9	10/28/2004	88.74	5.85	82.89	
MW-10	10/28/2004	88.52	4.77	83.75	
MW-1	1/20/2005	87.60	0.45	87.15	West to Northwest
MW-2	1/20/2005	88.33	1.59	86.74	
MW-3	1/20/2005	87.92	0.41	87.51	
MW-4	1/20/2005	87.70	0.55	87.15	
MW-5	1/20/2005	86.91	2.29	84.62	
MW-6	1/20/2005	86.63	0.69	85.94	
MW-7	1/20/2005	89.36	0.74	88.62	
MW-9	1/20/2005	88.74	2.22	86.52	
MW-10 ^A	1/20/2005	88.52	0.00	>88.52	



Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South

Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1	4/27/2005	87.60	0.46	87.14	West to Northwest
MW-2	4/27/2005	88.33	1.70	86.63	
MW-3	4/27/2005	87.92	0.47	87.45	
MW-4	4/27/2005	87.70	0.61	87.09	
MW-5	4/27/2005	86.91	2.43	84.48	
MW-6	4/27/2005	86.63	0.88	85.75	
MW-7	4/27/2005	89.36	0.82	88.54	
MW-10 ^A	4/27/2005	88.52	0.00	>88.52	
MW-1	7/6/2005	87.60	2.32	85.28	West to Northwest
MW-2	7/6/2005	88.33	2.58	85.75	
MW-3	7/6/2005	87.92	2.34	85.58	
MW-4	7/6/2005	87.70	2.41	85.29	
MW-5	7/6/2005	86.91	3.43	83.48	
MW-6	7/6/2005	86.63	2.23	84.40	
MW-7	7/6/2005	89.36	2.42	86.94	
MW-10	7/6/2005	88.52	1.54	86.98	
MW-1	10/14/2005	87.60	4.77	82.83	West to North
MW-2	10/14/2005	88.33	5.19	83.14	
MW-3	10/14/2005	87.92	4.95	82.97	
MW-4	10/14/2005	87.70	4.88	82.82	
MW-5	10/14/2005	86.91	5.01	81.90	
MW-6	10/14/2005	86.63	4.42	82.21	
MW-7	10/14/2005	89.36	4.82	84.54	
MW-10	10/14/2005	88.52	4.09	84.43	
MW-1 ^A	1/25/2006	87.60	0.00	>87.60	Northwest
MW-2	1/25/2006	88.33	1.00	87.33	
MW-3 ^A	1/25/2006	87.92	0.00	>87.92	
MW-4 ^A	1/25/2006	87.70	0.00	>87.70	
MW-5	1/25/2006	86.91	1.56	85.35	
MW-6 ^A	1/25/2006	86.63	0.00	>86.63	
MW-7	1/25/2006	89.36	0.23	89.13	
MW-9	1/25/2006	88.74	1.55	87.19	
MW-10 ^A	1/25/2006	88.52	0.00	>88.52	

MSL = Referenced to Mean Sea Level

na = Well not accessible for measurement

BTOC = Below top of casing

ns = Not surveyed

Well MW-8 was abandoned on October 26, 1998 and Well MW-11 was abandoned on June 11, 2002

^A=Water at top of casing^B Calculated using data from wells MW-5, MW-6, and MW-10

Table 5. Domestic Well Analytical Data Starting in 2002

3610 Gravenstien Highway South
Sebastopol, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE EPA Method 8260B* (µg/l)
DW-3598	4/25/2002	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3610	4/25/2002	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3617	4/25/2002	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3625	4/25/2002	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-5221	4/25/2002	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3598	7/25/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3610	7/25/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3617	7/25/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3625	7/25/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-5221	7/25/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3598	10/21/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3610	10/21/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3617	10/21/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3625	10/21/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-5221	10/21/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3598	12/18/2003	<0.050	<0.30	<0.30	<0.50	<0.50	<0.50
DW-3610	12/18/2003	<0.050	<0.30	<0.30	<0.50	<0.50	<0.50
DW-3617	12/18/2003	<0.050	<0.30	<0.30	<0.50	<0.50	<0.50
DW-3625	12/18/2003	<0.050	<0.30	<0.30	<0.50	<0.50	<0.50
DW-5221	12/18/2003	<0.050	<0.30	<0.30	<0.50	<0.50	<0.50
DW-3598	4/8/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3610	4/7/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3617	4/7/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3625	4/8/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3627	4/8/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-5221	4/8/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3598	7/21/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3610	7/21/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3617	7/21/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3625	7/21/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-5221	7/21/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3598	10/28/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3610	10/28/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3617	10/28/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3625	10/28/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-5221	10/28/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0



Table 5. Domestic Well Analytical Data Starting in 2002

3610 Gravenstien Highway South

Sebastopol, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE EPA Method 8260B* (µg/l)
DW-3598	1/21/2005	<0.05	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3610	1/21/2005	<0.05	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3617	1/20/2005	<0.05	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3625	1/20/2005	<0.05	<0.50	<0.50	<0.50	<0.50	<1.0
DW-5221	1/21/2005	<0.05	<0.50	<0.50	<0.50	<0.50	<1.0

mg/l = milligrams per liter

µg/l = micrograms per liter

TPH = total petroleum hydrocarbons

*analyzed for petroleum oxygenates and lead scavengers; none detected.

Sample Locations

DW-3598 =3598 Gravenstein Highway

DW-3610 =3610 Gravenstein Highway

DW-3617 =3617 Mt. Vernon Road

DW-3625 =3625 Gravenstein Highway

DW-3627 =3627 Gravenstein Highway

DW-5221 =5221 Lone Pine Road



Table 3. Soil Sample Analytical Data - Soil Borings
 3610 Gravenstein Highway South
 Sebastopol, California

Boring Number	Date Sampled	Depth (feet)	TPH as gasoline (mg/kg)	TPH as diesel (mg/kg)	TPH as motor oil (mg/kg)	Oil and Grease (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethyl-benzene (µg/kg)	Xylenes (µg/kg)	MTBE (µg/kg)	EPA 8010/8240 (µg/kg)
B-1	08/31/92	2.0	<1	na	na	<2.5	<2.5	<2.5	<2.5	na	na	na
B-1	08/31/92	4.5	<1	na	na	<2.5	<2.5	<2.5	<2.5	na	na	na
B-2	08/31/92	3.0	<1	na	na	<2.5	<2.5	<2.5	<2.5	6.4	na	na
B-2	08/31/92	5.5	3.9	na	na	4.4	<2.5	<2.5	<2.5	na	na	na
B-3	08/31/92	3.0	210 ¹	na	na	<125	<125	790	<125	na	na	na
B-3	08/31/92	5.0	3.8	na	na	<2.5	<2.5	<2.5	<2.5	2.5	na	na
B-4 (MW-1)	09/01/92	1.5	<1	na	na	<2.5	<2.5	<2.5	<2.5	2.5	na	na
B-4 (MW-1)	09/01/92	4.5	<1	na	na	<2.5	<2.5	<2.5	<2.5	2.5	na	na
B-5	03/22/93	2.5	340	39 ²	48	1,200	41 ³	2.5	2.5	140	210	nd
B-5	03/22/93	7.5	<1	na	na	<2.5	<2.5	<2.5	<2.5	2.5	na	na
B-6	03/22/93	2.0	1500	na	na	310	560	1,100	2,300	na	na	na
B-6	03/22/93	4.5	180	na	na	100	280	370	270	na	na	na
B-7	03/22/93	2.5	<1	na	na	<2.5	<2.5	<2.5	<2.5	2.5	na	na
B-9	03/23/93	3.0	<1	na	na	<2.5	<2.5	<2.5	<2.5	2.5	na	nd
B-11 (MW-2)	03/23/93	3.0	<1	2.1 ²	<10	<50	<2.5	<2.5	<2.5	<2.5	na	na
B-12	03/23/93	2.5	87	na	na	180	<2.5	85	130	na	na	na
B-12	03/23/93	5.5	16	na	na	600	160	180	550	na	na	na
B-14	03/25/93	3.0	<1	na	na	<2.5	<2.5	<2.5	<2.5	2.5	na	na
B-15	03/25/93	2.5	<1	na	na	<2.5	<2.5	<2.5	<2.5	2.5	na	na
B-16 (MW-4)	03/25/93	2.5	69	na	na	<2.5	25	120	140	na	na	na
B-17	11/29/94	2.5	<1.0	na	na	<5.0	<5.0	<5.0	<5.0	5.0	na	nd
B-18	11/29/94	2.5	<1.0	<1.0	<10	<50	<5.0	<5.0	<5.0	5.0	na	nd
B-19	11/29/94	2.5	100 ¹	120 ²	<10	250	<5.0	<5.0	<5.0	<5.0	5.0	nd
B-20	11/29/94	2.5	5.3 ¹	28	36	80	<5.0	<5.0	<5.0	5.0	12	na
B-21 (MW-5)	11/30/94	2.5	<1.0	na	na	<5.0	<5.0	<5.0	<5.0	5.0	na	na
B-22 (MW-6)	11/30/94	2.5	<1.0	na	na	<5.0	<5.0	<5.0	<5.0	5.0	na	na
B-23 (MW-7)	11/30/94	3.0	330	1,000 ²	<10	1,100	<5.0	26	110	na	nd	nd
B-24 (MW-8)	11/30/94	4.0	<1.0	na	na	<5.0	<5.0	<5.0	<5.0	5.0	na	na





Table 3. Soil Sample Analytical Data - Soil Borings
3610 Gravenstein Highway South
Sebastopol, California

Boring Number	Date Sampled	Depth (feet)	TPH as gasoline (mg/kg)	TPH as diesel (mg/kg)	TPH as motor oil (mg/kg)	Oil and Grease (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethyl-benzene (µg/kg)	Xylenes (µg/kg)	MTBE (µg/kg)	EPA 8010/8240 (µg/kg)
B-25	12/01/94	2.5	820	na	na	na	<5.0	1,400	5,200	35,000	na	na
B-26 (MW-9)	11/30/94	2.0	<1.0	<1.0	<10	<50	<5.0	ND	ND	ND	na	ND
B-27	12/01/94	3.0	<1.0	<1.0	260	400	<5.0	<5.0	<5.0	<5.0	na	ND
B-28	12/01/94	3.0	<1.0	<1.0	20	<50	<5.0	<5.0	<5.0	<5.0	na	ND
B-29	12/01/94	3.0	180	1,100 ²	4,100	7,000	<5.0	<5.0	<5.0	<5.0	na	ND
B-30	12/01/94	2.5	42	na	na	na	140	430	820	3,000	na	na
B-31	12/01/94	4.0	<1.0	<1.0	<10	na	<5.0	<5.0	<5.0	<5.0	ND	na
B-31	12/01/94	7.0	<1.0	<1.0	<10	na	<5.0	<5.0	<5.0	<5.0	na	na
B-326	12/01/94	5.0	<1.0	<1.0	<10	na	<5.0	<5.0	<5.0	<5.0	ND	na
MW-11	10/27/98	4.0	2.0	<1.0	<10	na	540	490	220	670	<200	na
MW-11	10/27/98	10.0	<1.0	<1.0	<10	na	5.1	<5.0	<5.0	<5.0	<50	na
B-33	12/10/04	5	250	na	na	na	<500	<500	<500	716	<500	na
B-33	12/10/04	10	<5.0	na	na	na	<25	<25	<25	<25	<25	na
B-33	12/10/04	5	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	<5.0	na
B-34	12/10/04	5	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	<5.0	na
B-34	12/10/04	10	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	<5.0	na
B-35	12/10/04	5	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	<5.0	na
B-35	12/10/04	10	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	<5.0	na

µg/kg = micrograms per kilogram.

mg/kg = milligrams per kilogram.

MTBE = methyl tertiary butyl ether.

¹= Chromatographic peak array does not match commercial gasoline standard.

²= Chromatographic peak array does not match commercial diesel standard or resemble commercial mineral spirit standard.

³= EPA Test Method 8240 result.

ND = not detected at method reporting limit.

na = not analyzed.

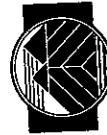


Table 4. Groundwater Sample Analytical Data - Soil Borings
 3610 Gravenstein Highway South
 Sebastopol, California

Boring Number	Date Sampled	TPH as Gasoline (mg/l)	TPH as Diesel (mg/l)	Motor Oil (mg/l)	Oil and Grease (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE ^A (µg/l)
B-17	4/6/93	ND	nr	ND	nr	ND	ND	ND	ND	nr
B-18	12/14/94	0.24 ^B	0.25 ^C	ND	ND	ND	ND	ND	ND	nr
B-19	12/18/96	1.2 ^B	1.4 ^C	ND	1.8	ND	ND	1.1	3.9	nr
B-20	4/6/93	0.8 ^B	0.6 ^C	ND	ND	ND	ND	8.4	4.0	nr
B-21 (MW-5)	12/14/94	ND	nr	nr	nr	ND	ND	ND	ND	nr
B-22 (MW-6)	12/18/96	ND	nr	nr	nr	ND	ND	ND	ND	nr
B-25	5/16/97	60	nr	nr	780	4,700	3,300	19,000	19,000	nr
B-27	11/3/97	0.17	0.06	2.0	2.5	ND	ND	1.8	1.8	nr
B-28	4/6/93	ND	ND	ND	ND	ND	ND	ND	ND	nr
B-29	12/14/94	0.32 ^B	0.15 ^C	ND	ND	1.2	ND	ND	1.7	nr
B-30	12/17/96	160	nr	nr	nr	16,000	44,000	6,800	31,000	nr
B-31	5/16/97	ND	ND	ND	nr	ND	ND	ND	ND	0.783
B-32	11/3/97	ND	ND	ND	nr	ND	ND	ND	ND	ND
B-33	12/10/04	1.7	nr	nr	<10	<10	46.1	193	<20	
B-34	12/10/04	4.2	nr	nr	<5.0	<5.0	48.9	<5.0	<10	
B-35	12/10/04	1.0	nr	nr	<5.0	<5.0	49.7	<5.0	<10	

µg/l = micrograms per liter.
 mg/l = milligrams per liter.

MTBE = methyl tertiary butyl ether.

^A = analyzed using EPA Test Method 8260 for petroleum oxygenates and lead scavengers, none detected.

Only those compounds detected are listed.

^B = Chromatographic peak array does not match commercial gasolene standard

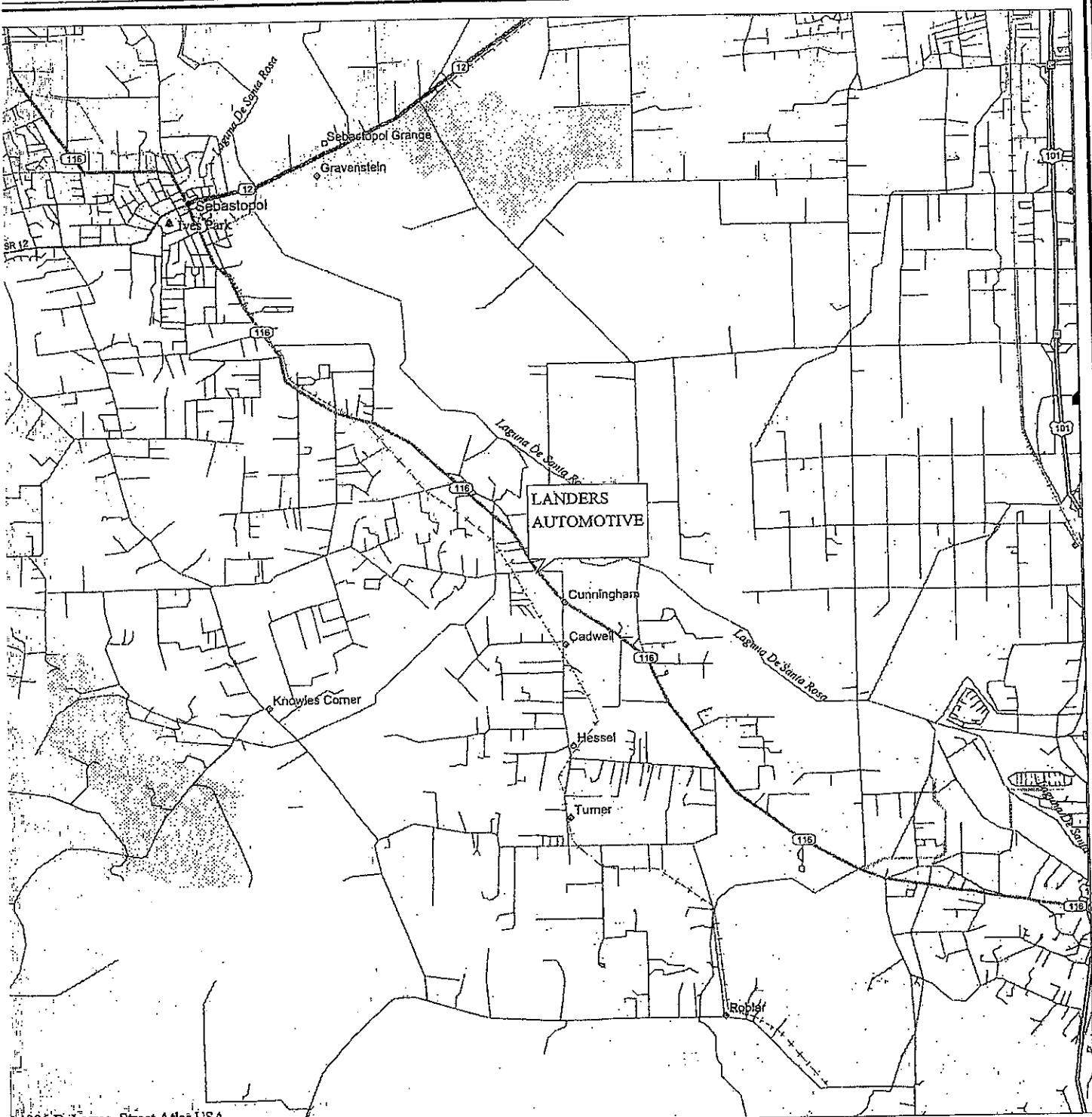
^C = Chromatographic peak array resembles that obtained from commercial mineral spirit standard

D = Methylene chloride detected at 10 µg/l, Trichloroethene detected at 0.5 µg/l

E = Chlorobenzene detected at 2.2 µg/l

PLATES





1996 DeLorme Street Atlas USA

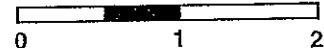
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Scale 1:62,500 (at center)

Tue Dec 02 14:22 2003

1 Miles

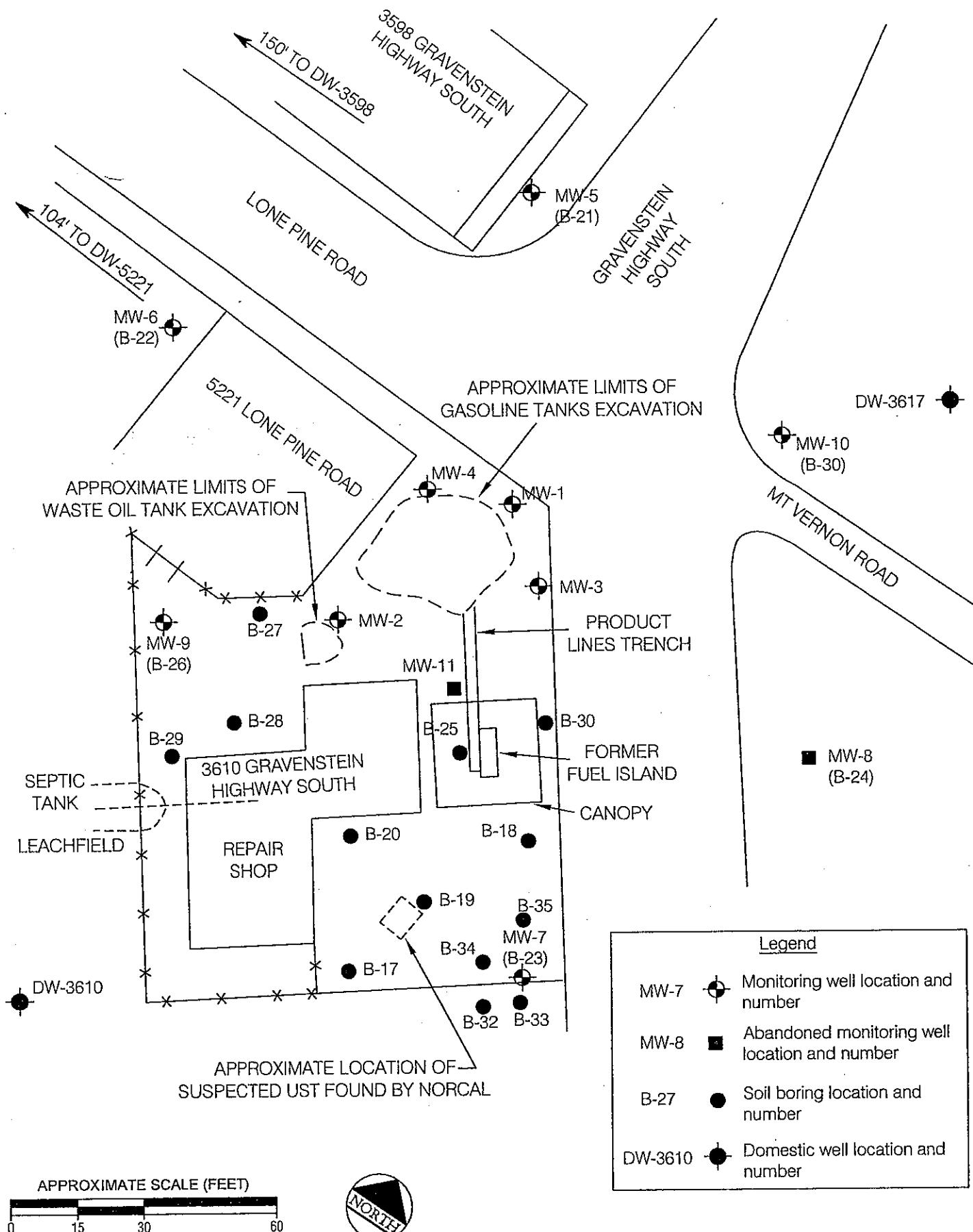
APPROXIMATE SCALE
(miles)

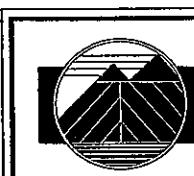
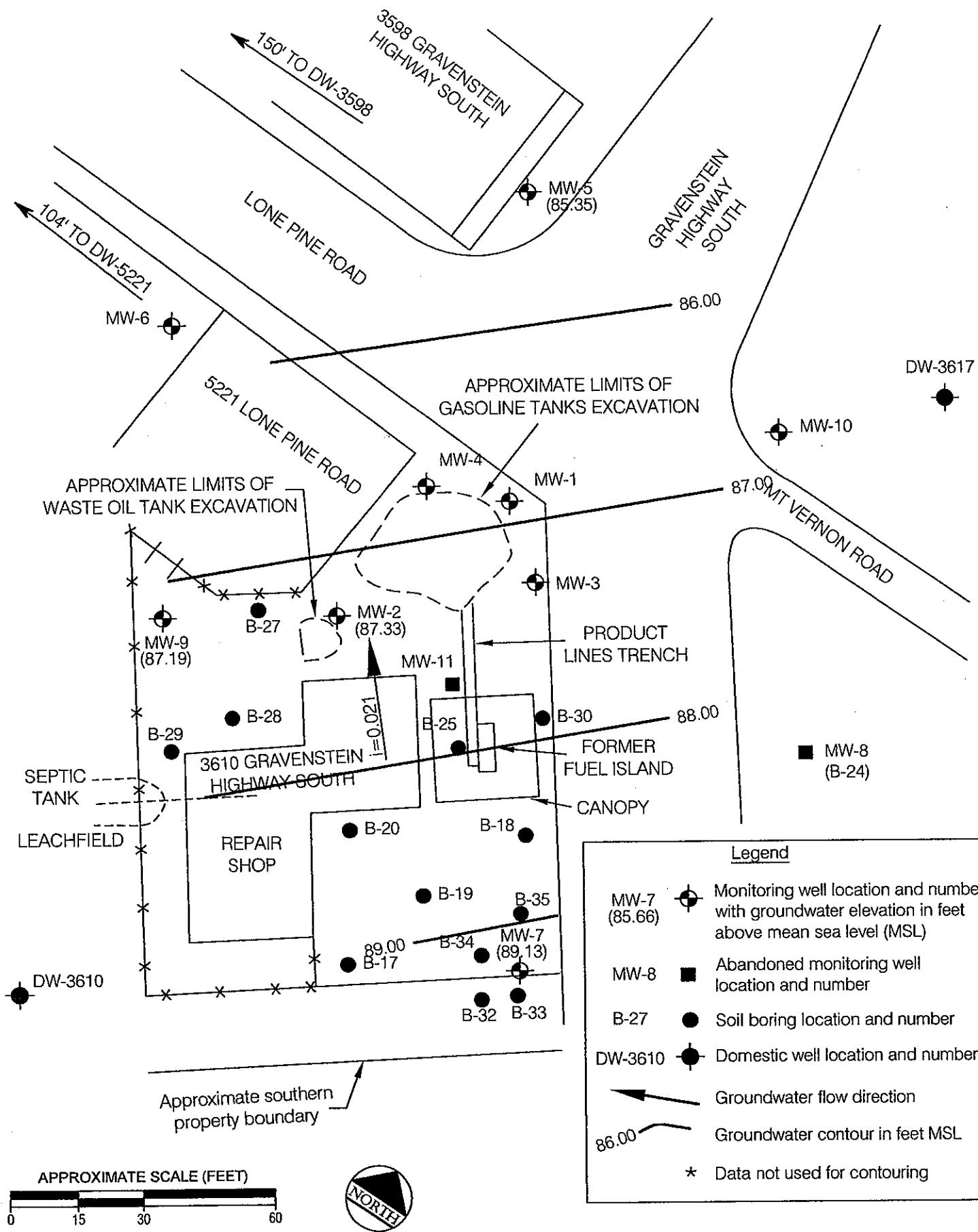


PROJECT NO.: 403		
DRAWN BY:	DEC	12/2/03
CHECKED BY:		
APPROVED BY:	<i>DMD</i>	12/16/03
REVISED BY:		

Brunsing Associates, Inc.
P. O. Box 588
Windsor, California 95492

PLATE 1
LOCATION MAP
3610 Gravenstein Highway South
Sebastopol, California





Brunsing Associates, Inc.
5803 Skylane Blvd., Suite A
Windsor, California 95492
Tel: (707) 838-3027

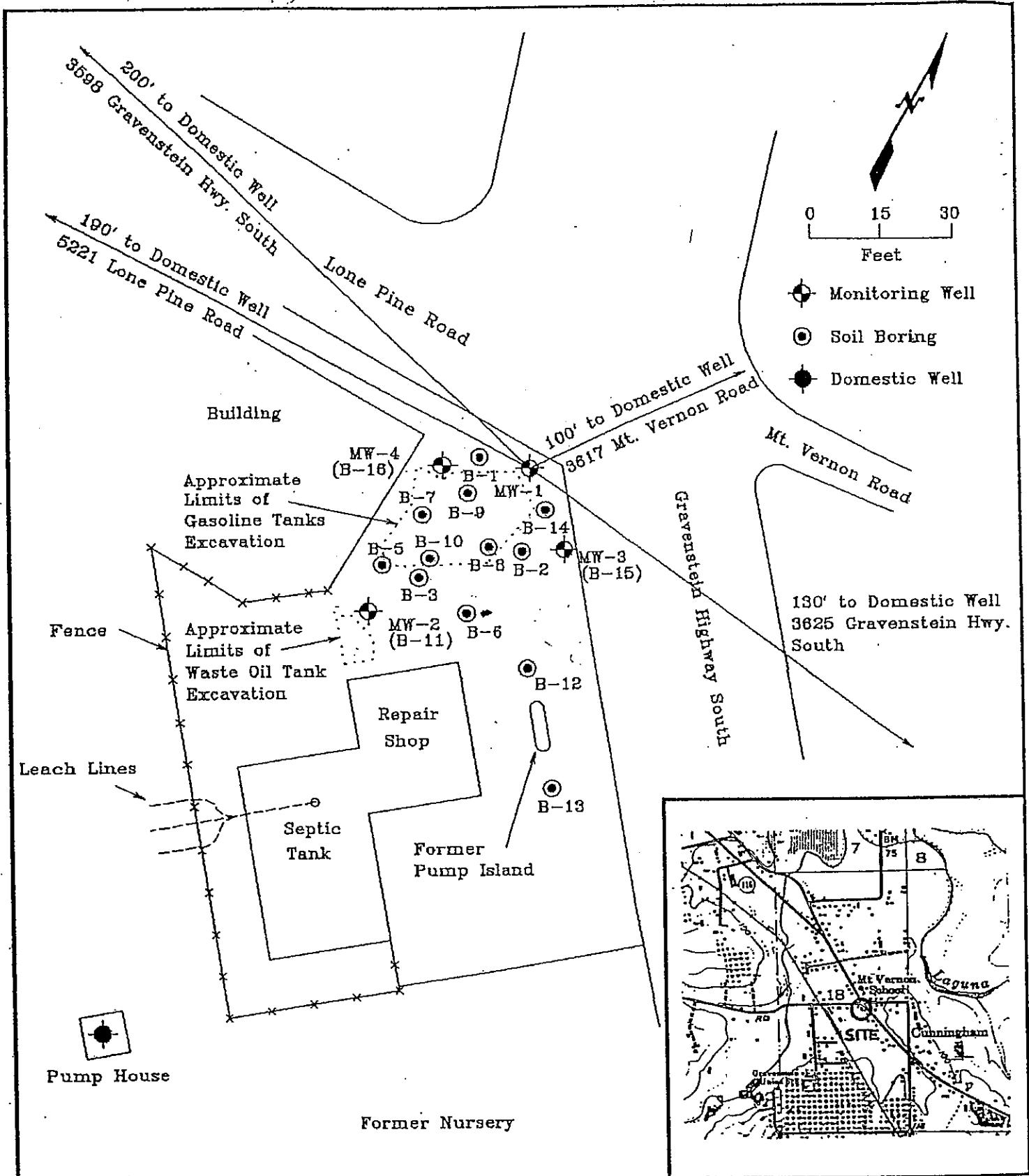
Job No.: 403
Appr.: *[Signature]*
Date: 1/31/06

GROUNDWATER ELEVATION MAP
JANUARY 25, 2006
LANDER'S AUTOMOTIVE
3610 Gravenstein Highway South
Sebastopol, California

PLATE
3

APPENDIX A
TTC Site Plan and Location Map





TRANS TECH CONSULTANTS
ENVIRONMENTAL AND GEOTECHNICAL SERVICES

Site Plan and Location Map
3610 Gravenstein Highway South
Sebastopol, California

PLATE 1

DRAWN
BSK

JOB NUMBER
1206.01.02

APPROVED
TEL

DATE
5-21-93

0102sr.s1

APPENDIX B
Sampling Protocol and Field Forms



Groundwater Sampling Protocol

Monitoring Wells

Prior to purging a monitoring well, groundwater levels are measured with a Solinst electric depth measurement device, or an interface probe, in all wells that are to be measured. At sites where petroleum hydrocarbons are possible contaminants, the well is checked for floating product using a clear bailer, a steel tape with water/oil paste, or an interface probe, during the initial sampling round. If floating product is measured during the initial sampling round or noted during subsequent sampling rounds, floating product measurements are continued.

After the water level and floating product measurements are complete, the monitoring well is purged until a minimum of three casing volumes of water are removed, water is relatively clear of sediment, and pH, conductivity, and temperature measurements of the water become relatively stable. If the well is purged dry, groundwater samples are collected after the water level in the well recovers to at least 80 percent of the original water column measured in the well prior to sampling, or following a maximum recovery period of two hours. The well is purged using a factory-sealed, disposable, polyethylene bailer, a four-inch diameter submersible Grundfos pump, a two-inch diameter ES-40 purge pump, or a peristaltic pump. The purge water is stored on-site in clean, 55-gallon drums.

A groundwater sample is collected from each monitoring well following re-equilibration of the well after purging. The groundwater sample is collected using a factory-sealed disposable, polyethylene bailer with a sampling port, or a factory-sealed Teflon bailer. A factory provided attachment designed for use with volatile organic compounds (VOCs) is attached to the polyethylene bailer sampling port when collecting samples to be analyzed for VOCs. The groundwater sample is transferred from the bailer into sample container(s) that are obtained directly from the analytical laboratory.

The sample container(s) is labeled with a self-adhesive tag. The following information is included on the tag:

- Project number
- Sample number
- Date and time sample is collected
- Initials of sample collector(s).

Individual log sheets are maintained throughout the sampling operations. The following information is recorded:



- Sample number
- Date and time well sampled and purged
- Sampling location
- Types of sampling equipment used
- Name of sampler(s)
- Volume of water purged.

Following collection of the groundwater sample, the sample is immediately stored on blue ice in an appropriate container. A chain-of-custody form is completed with the following information:

- Date the sample was collected
- Sample number and the number of containers
- Analyses required
- Remarks including preservatives added and any special conditions.

The original copy of the chain-of-custody form accompanies the sample containers to a California-certified laboratory. A copy is retained by BAI and placed in company files.

Sampling equipment including thermometers, pH electrodes, and conductivity probes are cleaned both before and after their use at the site. The following cleaning procedures are used:

- Wash with a potable water and detergent solution or other solutions deemed appropriate
- Rinse with potable water
- Double-rinse with organic-free or deionized water
- Package and seal equipment in plastic bags or other appropriate containers to prevent contact with solvents, dust, or other contaminants.

In addition, the pumps are cleaned by pumping a potable water and detergent solution and deionized water through the system. Cleaning solutions are contained on-site in clean 55-gallon drums.

Domestic and Irrigation Wells

Groundwater samples collected from domestic or irrigation wells are collected from the spigot that is the closest to the well. Prior to collecting the sample, the spigot is allowed to flow for at least 5 minutes to purge the well. The sample is then collected directly into laboratory-supplied containers, sealed, labeled, and stored on blue ice in an appropriate container, as described above. A chain-of-custody form is completed and submitted with the samples to the analytical laboratory.



UST Yes
 Fund Site: No

FIELD REPORT

FILE COPY

PAGE ____ OF ____

JOB NO: 403 PROJECT: Lander's Automotive - 3610 Gravenstein Hwy So. Sebastopol, CA

INITIAL: *gf* SUBJECT: G.W. Sampling
 DATE: 1/25/06 PROJECT PHASE NUMBER: 04
 VEHICLE USED: 2003 Chevy

Total Time: 7.0

End. Mileage: 49303

Beg. Mileage: 49263

TOTAL MILEAGE: 39

TIME	DESCRIPTION OF WORK AND CONVERSATION RECORD
1045	Arrived on site Set up for G.W. Sampling Measured Two Rounds of DTR in wells MW-1, 2, 3, 4 5, 6, 7, 9, 10 Performed sampling on wells - MW-1, 3, 4, 7 Stored Purge water in Drum on site Closed all wells Decovered Equipment Landed Truck
1500	Departed site
	DRUM COUNT: Water = _____ Devlpmt Water = _____ Soil = _____ Decon Water = _____



WATER LEVELS

SHEET _____ OF _____

PROJECT: Lander's - 3610 Gravenstein Hwy So. Sebastopol, CA PROJECT NUMBER: 403

INSTRUMENT TYPE: EnviroTest

INITIALS: EJ

DATE: 1/25/05

WELL SAMPLING

SHEET OF

PROJECT: Lander's Automotive - 3610 Gravenstein Hwy So. Sebastopol, CA PROJECT NUMBER: 403

WELL # MW-1 PRECIP. IN LAST 5 DAYS: NO WIND NO DATE: 1/25/06

STARTING TIME: 1305 FINISHING TIME: 1328

INITIALS: EJ

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 0.5 = GALLONS

4" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS

G
A
L
L
O
N
S

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
1305	1	8.12	280	13.2	clear, no odor
1309	4	6.91	176.9	15.0	Brown, no odor
1314	8	6.43	185.4	16.4	Brown, no odor

SAMPLING: SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, petro oxy & Pb scav)

SAMPLE TIME: 1315 DID WELL GO DRY?

WATER LEVELS:		NOTES:
TIME	D.T.W.	
1328	0.0	To the top of the well

WELL SAMPLING

SHEET OF

PROJECT: Lander's Automotive - 3610 Gravenstein Hwy So. Sebastopol, CA

PROJECT NUMBER: 403

WELL # mw-3 PRECIP. IN LAST 5 DAYS: NO

WIND NO

DATE: 1/25/06

STARTING TIME: 1337 FINISHING TIME: 1346

INITIALS: gk

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: 13.00 - D.T.W. 0.0 = H2O COLUMN: 13.00 X 0.5 = 6.5

G
A
L
L
O
N
S

4" WELL DEPTH: [] - D.T.W. [] = H2O COLUMN: [] X 2.0 = []

THEREFORE TOTAL PURGE GALLONS EQUALS 7.0

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
1337	1	6.22	183.4	15.4	Clear, no odor
1341	3	5.95	185.5	15.8	Brown, no odor
1344	7	5.86	189.1	16.1	Brown, no odor

SAMPLING: SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, petro oxy & Pb scav)

SAMPLE TIME: 1345 DID WELL GO DRY? NO

WATER LEVELS:		NOTES:
TIME	D.T.W.	
1346	3.21	

WELL SAMPLING

SHEET OF

PROJECT: Lander's Automotive - 3610 Gravenstein Hwy So. Sebastopol, CA

PROJECT NUMBER: 403

WELL # MW-4 PRECIP. IN LAST 5 DAYS: WIND NO

DATE: 1/25/04

STARTING TIME: 1403 FINISHING TIME: 1416

INITIALS: ef

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: 13.00 - D.T.W. 0.0 = H₂O COLUMN: 13.00 X 0.5 = 6.5

4" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS 7.0

G
A
L
L
O
N
S

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
<u>1403</u>	<u>1</u>	<u>6.16</u>	<u>314</u>	<u>12.8</u>	<u>clear, no odor</u>
<u>1406</u>	<u>3</u>	<u>6.33</u>	<u>302</u>	<u>15.2</u>	<u>Brown, no odor</u>
<u>1414</u>	<u>7</u>	<u>6.47</u>	<u>308</u>	<u>15.9</u>	<u>Silt Brown, no odor</u>

SAMPLING:

SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, petro oxy & Pb scav)

SAMPLE TIME:

1415

DID WELL GO DRY?

No

WATER LEVELS:		NOTES:
TIME	D.T.W.	
<u>1416</u>	<u>11.23</u>	

WELL SAMPLING

SHEET OF

PROJECT: Lander's Automotive - 3610 Gravenstein Hwy So. Sebastopol, CA

PROJECT NUMBER: 403

WELL # MW-7 PRECIP. IN LAST 5 DAYS: WIND DATE: 1/25/26STARTING TIME: 1430 FINISHING TIME: 1444INITIALS: geCALCULATION OF PURGE VOLUME2" WELL DEPTH: 10.00 - D.T.W. 0.23 = H2O COLUMN: 9.77 X 0.5 = 4.884" WELL DEPTH: - D.T.W. = H2O COLUMN: X 2.0 = THEREFORE TOTAL PURGE GALLONS EQUALS 50G
A
L
L
O
N
SFIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
<u>1436</u>	<u>1</u>	<u>6.52</u>	<u>344</u>	<u>14.5</u>	<u>Brown, PHC odor</u>
<u>1438</u>	<u>2</u>	<u>6.55</u>	<u>338</u>	<u>14.4</u>	<u>Brown, PHC odor</u>
<u>1442</u>	<u>5</u>	<u>6.65</u>	<u>336</u>	<u>15.0</u>	<u>Brown, PHC odor</u>

SAMPLING: SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, petro oxy & Pb scav) SAMPLE TIME: 1445 DID WELL GO DRY? No

WATER LEVELS:		NOTES:
TIME	D.T.W.	
<u>1444</u>	<u>4.35</u>	

APPENDIX C
Analytical Laboratory Reports



Laboratory Report Project Overview

EDF 1.2a

Laboratory: Bace Analytical, Windsor, CA
Lab Report Number: 4744
Project Name: 3610 GRAVENSTEIN HWY. S.
Work Order Number: 403
Control Sheet Number: NA

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anicode	Exmcode	Logdate	Exidate	Anadate	Lablotcl!	Run Sub
4744	MW-1	4744-1	W	CS	8260FAB	SW5030B	01/25/200	02/06/200	02/06/200	20060206A	18
4744	MW-1	4744-1	W	CS	8260TPH	SW5030B	01/25/200	02/06/200	02/06/200	20060206A	18
4744	MW-3	4744-2	W	CS	8260FAB	SW5030B	01/25/200	02/06/200	02/06/200	20060206A	19
4744	MW-3	4744-2	W	CS	8260TPH	SW5030B	01/25/200	02/06/200	02/06/200	20060206A	19
4744	MW-4	4744-3	W	CS	8260FAB	SW5030B	01/25/200	02/06/200	02/06/200	20060206A	20
4744	MW-4	4744-3	W	CS	8260TPH	SW5030B	01/25/200	02/06/200	02/06/200	20060206A	20
4744	MW-7	4744-4	W	CS	8260FAB	SW5030B	01/25/200	02/06/200	02/06/200	20060206A	21
4744	MW-7	4744-4	W	CS	8260TPH	SW5030B	01/25/200	02/06/200	02/06/200	20060206A	21
4744	4742-1	W	NC	8260TPH	SW5030B	/ /	02/06/200	02/06/200	02/06/200	20060206A	12
4744	4742-5	W	NC	8260FAB	SW5030B	/ /	02/06/200	02/06/200	02/06/200	20060206A	9
4744MB	W	LB1	8260FAB	SW5030B	/ /	02/06/200	02/06/200	02/06/200	20060206A	2	
4744MB	W	LB1	8260TPH	SW5030B	/ /	02/06/200	02/06/200	02/06/200	20060206A	2	
4744MS	W	MS1	8260FAB	SW5030B	/ /	02/06/200	02/06/200	02/06/200	20060206A	10	
4744MS	W	MS1	8260TPH	SW5030B	/ /	02/06/200	02/06/200	02/06/200	20060206A	13	
4744SD	W	SD1	8260FAB	SW5030B	/ /	02/06/200	02/06/200	02/06/200	20060206A	11	
4744SD	W	SD1	8260TPH	SW5030B	/ /	02/06/200	02/06/200	02/06/200	20060206A	14	

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Project No:	403	Method:	8260FAB			
		Prep Meth:	SW5030B			
Field ID:	MW-1	Lab Samp ID:	4744-1			
Descr/Location:	MW-1	Rec'd Date:	01/25/2006			
Sample Date:	01/25/2006	Prep Date:	02/06/2006			
Sample Time:	1315	Analysis Date:	02/06/2006			
Matrix:	Water	QC Batch:	20060206A			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1
Benzene	0.27	0.50	PQL	ND	UG/L	1
Toluene	0.25	0.50	PQL	ND	UG/L	1
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1
Xylenes	0.25	0.50	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	86-118	SLSA		98%		1
Toluene-d8	88-110	SLSA		100%		1
Dibromofluoromethane	86-115	SLSA		98%		1

Approved by:

*W. L. Polley*Date: 2/8/06

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Project No:	403	Method:	8260FAB			
		Prep Meth:	SW5030B			
Field ID:	MW-3	Lab Samp ID:	4744-2			
Descr/Location:	MW-3	Rec'd Date:	01/25/2006			
Sample Date:	01/25/2006	Prep Date:	02/06/2006			
Sample Time:	1345	Analysis Date:	02/06/2006			
Matrix:	Water	QC Batch:	20060206A			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1
Benzene	0.27	0.50	PQL	0.62	UG/L	1
Toluene	0.25	0.50	PQL	ND	UG/L	1
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1
Xylenes	0.25	0.50	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		86-118	SLSA	99%		1
Toluene-d8		88-110	SLSA	99%		1
Dibromofluoromethane		86-115	SLSA	97%		1

Approved by:

*William H. Rott*Date: 3/8/06

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Project No:	403	Method:	8260FAB			
		Prep Meth:	SW5030B			
Field ID:	MW-4	Lab Samp ID:	4744-3			
Descr/Location:	MW-4	Rec'd Date:	01/25/2006			
Sample Date:	01/25/2006	Prep Date:	02/06/2006			
Sample Time:	1415	Analysis Date:	02/06/2006			
Matrix:	Water	QC Batch:	20060206A			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1
Benzene	0.27	0.50	PQL	0.52	UG/L	1
Toluene	0.25	0.50	PQL	ND	UG/L	1
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1
Xylenes	0.25	0.50	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		86-118	SLSA	99%		1
Toluene-d8		88-110	SLSA	100%		1
Dibromofluoromethane		86-115	SLSA	98%		1

Approved by:

Wellman & Ratz

Date:

3/8/06

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Project No:	403	Method:	8260FAB			
		Prep Meth:	SW5030B			
Field ID:	MW-7	Lab Samp ID:	4744-4			
Descr/Location:	MW-7	Rec'd Date:	01/25/2006			
Sample Date:	01/25/2006	Prep Date:	02/06/2006			
Sample Time:	1443	Analysis Date:	02/06/2006			
Matrix:	Water	QC Batch:	20060206A			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	1.9	5.0	PQL	ND	UG/L	5
Ethyl tert-butyl ether (ETBE)	1.5	5.0	PQL	ND	UG/L	5
tert-Amyl methyl ether (TAME)	1.3	5.0	PQL	ND	UG/L	5
Di-isopropyl ether (DIPE)	1.9	5.0	PQL	ND	UG/L	5
tert-Butyl alcohol (TBA)	12.	50.	PQL	ND	UG/L	5
1,2-Dichloroethane	1.5	2.5	PQL	ND	UG/L	5
1,2-Dibromoethane	1.5	2.5	PQL	ND	UG/L	5
Benzene	1.4	2.5	PQL	DX	UG/L	5
Toluene	1.3	2.5	PQL	3.88	UG/L	5
Ethylbenzene	1.3	2.5	PQL	282	UG/L	5
Xylenes	1.3	2.5	PQL	298	UG/L	5
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	86-118	SLSA		96%		1
Toluene-d8	88-110	SLSA		98%		1
Dibromofluoromethane	86-115	SLSA		98%		1
DX: Value < lowest standard (MQL), but > than MDL						

Approved by:

*W. L. L. & P. O.*Date: 2/8/06

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	Total Petroleum Hydrocarbons (TPH) by GC/MS			
Project No:	403	Method:	8260TPH			
		Prep Meth:	SW5030B			
Field ID:	MW-1	Lab Samp ID:	4744-1			
Descr/Location:	MW-1	Rec'd Date:	01/25/2006			
Sample Date:	01/25/2006	Prep Date:	02/06/2006			
Sample Time:	1315	Analysis Date:	02/06/2006			
Matrix:	Water	QC Batch:	20060206A			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.04	0.05	PQL	ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	70-130	SLSA		98%		1

Approved by:

Wesley & Ratty

Date:

2/8/06

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	Total Petroleum Hydrocarbons (TPH) by GC/MS			
Project No:	403	Method:	8260TPH			
		Prep Meth:	SW5030B			
Field ID:	MW-3	Lab Samp ID:	4744-2			
Descr/Location:	MW-3	Rec'd Date:	01/25/2006			
Sample Date:	01/25/2006	Prep Date:	02/06/2006			
Sample Time:	1345	Analysis Date:	02/06/2006			
Matrix:	Water	QC Batch:	20060206A			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.04	0.05	PQL	ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene			70-130	SLSA	99%	1

Approved by: _____

*William H. Potts*Date: 2/8/2006

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	Total Petroleum Hydrocarbons (TPH) by GC/MS			
Project No:	403	Method:	8260TPH			
		Prep Meth:	SW5030B			
Field ID:	MW-4	Lab Samp ID:	4744-3			
Descr/Location:	MW-4	Rec'd Date:	01/25/2006			
Sample Date:	01/25/2006	Prep Date:	02/06/2006			
Sample Time:	1415	Analysis Date:	02/06/2006			
Matrix:	Water	QC Batch:	20060206A			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.04	0.05	PQL	ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						1
4-Bromofluorobenzene	70-130	SLSA	99%			

Approved by:

Wesley H. Potts

Date:

2/8/06

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	Total Petroleum Hydrocarbons (TPH) by GC/MS			
Project No:	403	Method:	8260TPH			
		Prep Meth:	SW5030B			
Field ID:	MW-7	Lab Samp ID:	4744-4			
Descr/Location:	MW-7	Rec'd Date:	01/25/2006			
Sample Date:	01/25/2006	Prep Date:	02/06/2006			
Sample Time:	1443	Analysis Date:	02/06/2006			
Matrix:	Water	QC Batch:	20060206A			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.20	0.25	PQL	10.	MG/L	5
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	70-130	SLSA		96%		1

Approved by:

*William H. Rott*Date: 2/8/06

**QA/QC Report
Method Blank Summary**

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

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QC Batch:	20060206A	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Matrix:	Water	Method:	8260FAB			
Lab Samp ID:	4744MB	Prep Meth:	SW5030B			
Analysis Date:	02/06/2006	Prep Date:	02/06/2006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1
Benzene	0.27	0.50	PQL	ND	UG/L	1
Toluene	0.25	0.50	PQL	ND	UG/L	1
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1
Xylenes	0.25	0.50	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	86-118	SLSA		101%		1
Toluene-d8	88-110	SLSA		100%		1
Dibromofluoromethane	86-115	SLSA		101%		1

**QA/QC Report
Method Blank Summary**

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

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QC Batch:	20060206A	Analysis:	Total Petroleum Hydrocarbons (TPH) by			
Matrix:	Water	Method:	8260TPH			
Lab Samp ID:	4744MB	Prep Meth:	SW5030B			
Analysis Date:	02/06/2006	Prep Date:	02/06/2006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.04	0.05	PQL	ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	70-130	SLSA		101%		1

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary
Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

QC Batch: 20060206A
Matrix: Water
Lab Samp ID: 4744MS
Basis: Not Filtered

Project Name: Lab Generated or Non COE Sample
Project No.: Lab Generated or Non COE Sample
Field ID: Lab Generated or Non COE Sample
Lab Ref ID: 4742-1

Analyte	Analysis Method	Spike Level		Sample Result	Spike Result DMS	Units	% Recoveries MS DMS RPD	Acceptance Criteria	
		MS	DMS					RPD	Rec
Gasoline Range Organics (C5-C12)	8260TPH	0.40	0.40	0.36	0.81	0.81	113	113	0.00
4-Bromofluorobenzene	8260TPH	100.	100.	98.	97.	97.	97.0	97.0	0.00

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

Bace Analytical, Windsor, CA

Lab Report No.: 4744 Date: 02/08/2006

QC Batch: 20060206A
 Matrix: Water
 Lab Samp ID: 4744MS
 Basis: Not Filtered

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Project Name: Lab Generated or Non COE Sample
 Project No.: Lab Generated or Non COE Sample
 Field ID: Lab Generated or Non COE Sample
 Lab Ref ID: 4742-5

Analyte	Analysis Method	Spike Level DMS		Sample Result	Spike Result DMS	Units	% Recoveries		Acceptance Criteria	
		MS	DMS				MS	DMS	RPD	
1,2-Dibromoethane	8260FAB	10.0	10.0	ND	11.1	11.6	UG/L	111	116	4.4
	8260FAB	10.0	10.0	ND	11.0	11.6	UG/L	110	116	5.3
1,2-Dichloroethane	8260FAB	10.0	10.0	ND	10.4	10.7	UG/L	104	107	2.8
Benzene	8260FAB	10.0	10.0	ND	9.71	9.89	UG/L	97.1	98.9	1.8
Di-isopropyl ether (DIPE)	8260FAB	10.0	10.0	ND	9.72	9.85	UG/L	97.2	98.5	1.3
Ethyl tert-butyl ether (ETBEE)	8260FAB	10.0	10.0	ND	10.4	10.5	UG/L	104	105	0.96
Ethylbenzene	8260FAB	10.0	10.0	ND	10.0	10.4	UG/L	100	104	3.9
Methyl-tert-butyl ether (MTBE)	8260FAB	10.0	10.0	ND	10.3	10.4	UG/L	103	104	0.97
Toluene	8260FAB	10.0	10.0	ND	31.5	31.2	UG/L	105	104	0.96
Xylenes	8260FAB	30.0	30.0	ND	9.53	9.91	UG/L	95.3	99.1	3.9
tert-Amyl methyl ether (TAME)	8260FAB	10.0	10.0	ND	57.0	54.1	UG/L	114	108	5.4
tert-Butyl alcohol (TBA)	8260FAB	50.0	50.0	ND	99.	99.	PERCENT	99.0	99.0	0.00
4-Bromofluorobenzene	8260FAB	100.	100.	103.	100.	100.	PERCENT	100	99.0	1.0
Dibromofluoromethane	8260FAB	100.	100.	101.	100.	100.	PERCENT	100	100	0.00
Toluene-d8	8260FAB	100.	100.	102.	100.	100.	PERCENT	100	110-88	SLSA

20SLSP
 20SLSP
 20SLSP

Chain-of Custody Form

Project #	Project Name / Handlers Information	Analysis										C.O.C. No.	Remarks:
403	3610 Gravestine Hwy S	No. of Containers											
L.P. No.	Samplers Signature												
Date Sampled	Sample ID	Time (24 Hour)	Sample Type										
1/23/06	MW-1	1345	420										
	MW-3	1345	7										
	MW-4	1415	7										
	MW-7	1443	7										
<p>Reagents used: Pb Sc Cu Pb Zn Cd Pb As Cd Pb As Cd Pb As Cd</p>													
<p>Preservation: <input checked="" type="checkbox"/> - HCl <input type="checkbox"/> B - H₂SO₄ <input type="checkbox"/> C - NaOH <input type="checkbox"/> D - HNO₃ <input checked="" type="checkbox"/> E - Hg <input type="checkbox"/> F - (specify)</p>													
Laboratory:		<u>Brunsing Associates, Inc.</u>											
		P.O. Box 588 5803 Skyline Blvd., Suite A Windson, CA 95492 (707) 838-3027 (707) 838-4420 fax											
		Received by: <i>John</i> (signed)	Received Date/Time: 1/25/06 10:55 AM Date/Time	<u>Results To</u>									
Relinquished by: <i>John</i> (signed)	Received by: <i>John</i> (signed)	<u>Save C</u>											
Relinquished by: <i>John</i> (signed)	Received Date/Time												